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Figure 1A-D MR imaging demonstrated an enhancing soft tissue mass involving the right posterior nasopharynx with infiltration laterally and posteriorly into the right prevertebral strap muscles and through the pharyngobasilar fascia to involve the medial and lateral pterygoids. The right carotid and internal carotid artery was ensheathed and abnormal tissue was seen in the right carotid canal and jugular foramen. The right cavernous sinus was involved via perineural spread through the foramen ovale (1A-B). Basal pachy- and leptomeningitis was noted along the floor of the right middle cranial fossa with high signal in the overlying temporal lobe (1C). Progressive changes were noted in the pterygomaxillary fissure, the muscles of the masticator compartment and throughout the temporalis muscle on the right at the time of re-presentation (1D).

Figure 1E-G A diffuse plasma cell-rich, chronic inflammatory cell infiltrate with prominent stromal fibrosis/hyalinization, fat necrosis and focal granulation tissue was evident on biopsy of anterior temporalis and posterior maxilla (1E). Immunocytochemistry demonstrated numerous IgG and IgG4 positive plasma cells (1F and 1G).

